

DEMIDOVICH, V.M., kand.med.nauk; ROL'NIK, N.Ya.

Myoclonia of the soft palate and vocal cords. Med. zhur. Uzb. no.9:  
64-65 S '61. (MIRA 15:2)

1. Iz kliniki nervnykh bolezney Tashkentskogo gosudarstvennogo  
meditsinskogo instituta.  
(PALATE\_\_DISEASES) (VOCAL CORDS\_\_DISEASES)

ROL'NIK, S.V.

Neurological complications in essential thrombopenia. Vop.  
psikh. i nevr. no.9:136-142 '62. (MIRA 17:1)

1. Nervnoye otdeleniye Pskovskoy oblastnoy bol'nitsy  
(glavnyy vrach - Ye.A. Razumovskaya).

ROL'NIK, V.V.

Method of studying gas exchange in bird embryos. Fiziol.  
zhur. 49 no.8:1000-1003 Ag '63. (MIRA 17:2)

1. From the I.M. Sechenov Institute of Evolutionary  
Physiology, Leningrad.

ROL'NIK, V.V.

Incubation of eider eggs (*Somateria mollissima* L.) Zool.zhur.  
34 no.4:885-897 J1-Ag '55. (MIRA 8:9)

1. Yestestvenno-nauchnyy institut imeni P.F.Losgafta  
(Biders) (Incubation)

USSR / General Biology. Individual Development.

B-4

Abs Jour: Ref Zhur-Biol., No 10, 1958, 42791.

Author : ~~Rolnik, V. V.~~

Inst : Not given.

Title : Physiology of Respiration of Domestic Fowl Embryos.

Orig Pub: Probl. sovrem. embriologii, L., Un-t, 1956, 228-235.

Abstract: The air sac of hen's eggs (determination was made with the precision of  $\pm 0.2\%$  by a micro-analytical apparatus constructed by the author) at the end of incubation, on the average, contains 16.2% O<sub>2</sub> and 3.8% CO<sub>2</sub>. After the embryo punctures the subshell membrane it begins to breathe air poor in O<sub>2</sub> and rich in CO<sub>2</sub>, as a result of which asphyxia sets in.

Card 1/3

USSR / General Biology. Individual Development.

B-4

Abs Jour: Ref Zhur-Biol., No 10, 1958, 42791.

Abstract: Tests were made in ligating allantoic vessels leading to the embryo: a 17-day-old embryo dies almost immediately after vessel ligation; in a 19-day-old embryo the dependence on allantoic respiration is less, while a 20-day-old embryo scarcely requires any allantoic respiration. To lower asphyxia,  $O_2$  was introduced into the air chamber of eggs on one of the last (17-20th) days of incubation. After introducing 5 ml of  $O_2$  into the air chamber its partial pressure in the chamber was more than doubled. Introduction of  $O_2$  in large scale tests under industrial conditions increased the percentage of chick production by 11.7-14.4; ducklings by 6.3 and turkeys by 19.7, as well as shortening the hatching period. The author concludes that during the period of transition from allantoic to

Card 2/3

12

ROL'NIK, V.V.

Studying gas composition of the air cell of the hen's egg in  
the course of incubation. Mat. po evol. fiziol. 4:208-219

'60.

(MIRA 13:10)

(EMBRYOLOGY--BIRDS) (RESPIRATION)

ROL'NIK, Mikhail Abramovich; ASTAKHOV, A.V., red.; LOMILINA, L.N.,  
tekh. red.

[Sparkproof telephone communications systems and apparatus in  
mines] Iskrobezopasnye sistemy i apparaty shakhtnoi telefonnoi  
sviazi. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu  
delu, 1961. 54 p. (MIRA 14:8)

(Mines and mineral resources--Communication systems)  
(Telephone--Equipment and supplies)

ROL'NIK, M.A., inzh.

Sparkproof transistorized switch gear for centralized mine  
dispatching systems. Ugol' Ukr. 5 no.2:34-35 7 '61. (MIRA 14:3)  
(Mine communications)

ROD'NIK, Mikhail Abramovich; ETIN, Iosif Zus'yevich; ASTAKHOV, A.V.,  
red.izd-va; MINSK, L.I., tekhn.red.

[Expert in mine communication] Master shakhtnoi svyazi.  
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu,  
1961. 237 p. (MIRA 14:4)  
(Mine communications)

S/196/62/000/016/002/011  
E194/E155

AUTHOR: Rol'nik, M.A.

TITLE: Capacitative and semiconductor shunts in inherently safe circuits

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.16, 1962, 12, abstract 16 A 94. (Bezopasnost' truda v prom-sti, no.1, 1962, 18-20).

TEXT: Capacitative and semiconductor shunts are recommended for achieving "intrinsically-safe" d.c. and a.c. electrical circuits. The shunts may either completely prevent dissipation of energy in the discharge gap or else reduce it to a safe level. At the instant of opening of the contacts the electro-magnetic energy stored in inductance is diverted into capacitance storage (in capacitors or variconds) or else the voltage surges in the discharge gap are suppressed by resistance. Shunts for electrical circuits should be selected to suit the particular conditions by analysing the advantages and disadvantages of the various shunts. Thus the fundamental properties of intrinsically-safe shunts are:

Card 1/2

Capacitative and semiconductor ... S/196/62/000/016/002/011  
E194/E155

the spark suppressing ability, the influence on the operating parameters of the electrical circuit, reliability, construction and cost. The basic criterion of intrinsically-safe equipment is reliability. Capacitative shunts are the most reliable. Of semiconductor shunts the silicon carbide varistor (non-linear semiconductor resistance) is sufficiently reliable; it withstands temperature rises up to 700 °C and short term voltage surges of 1500 V.  
3 illustrations.

[Abstractor's note: Complete translation.]

Card 2/2

HOI'NIK, M.A., inzh.

Sparkproof d.c. telephone relay system. Ugol' Ukr. 6 no.1:38-39  
Ja '62. (MIRA 15:2)

1. Dongiprouglenash.

(Mine communications)  
(Electric relays)

D'YACHKOV, V.G.; ROL'NIK, S.V.

Surgical treatment of hemorrhages into the cerebellum. Zhur. nevr.  
i psikh. 62 no.1:40 '62. (MIRA 15:4)

1. Leningradskiy nauchno-issledovatel'skiy neyrokhirurgicheskiy  
institut imeni A.L.Polenova (dir. - prof. V.M.Ugryumov) i nervnoye  
otdeleniye Pskovskoy oblastnoy bol'nitsy (glavnyy vrach Ye.A.  
Razumovskaya).

(BRAIN---HEMORRHAGE)

✓  
BORISKIN, V.V.; OBLAPENKO, P.V.; ROL'NIK, V.V.; SAVIN, B.M.

Possible development of the animal organism in case of nitrogen substitution by helium. Dokl. AN SSSR 143 no.2:475-478 Mr '62.  
(MIRA 15:3)

1. Institut evolyutsionnoy fiziologii im. I.M.Sechenova AN SSSR i Voenno-meditsinskaya akademiya im. S.M.Kirova. Predstavleno akademikom V.N.Chernigovskim.

(HELIUM—PHYSIOLOGICAL ~~EFFECT~~)  
(INCUBATION)

RODNIK, V.V.

Biometric analysis of some developmental problems in the chick  
embryo. Prim. mat. metod. v biol. no.3:158-163 '66.

(MIRA 17:11)

1. Institut evolyutsionnoy fiziologii. Ak. Nauk, Leningrad.

35735  
S/020/62/143/002/022/022  
B144/B138

27.4100

AUTHORS: Boriskin, V. V., Oblapenko, P. V., Rol'nik, V. V., and Sabin, B. M.

TITLE: Developmental potentialities of the animal organism when atmospheric nitrogen is replaced by helium

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 143, no. 2, 1962, 475 - 478

TEXT: Development of chicken embryos of the white Russian breed was studied in a two-stage incubator of special design. The gas mixture was passed through a thermostat, where it was preheated and saturated at 26 - 33°C; then it was led through a final preheating coil and distributed into 4 glass cylinders with 10 eggs in each. Ventilation was controlled by a gas meter at the outlet; maximum CO<sub>2</sub> content was 0.3%; temperature was measured by thermocouples fixed to one egg in every glass cylinder; egg inversion took place every 2 hrs. Test groups had 40 eggs each: 1) He:O mixture of 79 - 80% : 21 - 20%; 2) atmospheric air from a cylinder; 3) usual conditions in a two-stage incubator. Observation of weight loss

Card 1/3

Developmental potentialities of ...

S/020/62/143/002/022/022  
B144/B138

and hatching, autopsy of some eggs with living and all eggs with dead embryos, and egg testing were carried out to elucidate the effect of altered gaseous media. Hatchability in 3) was very high (95.8%). The lower values for 1) (27.6%) and 2) (67.8%) are partly due to insufficient turning of the eggs. This can be overcome by structural improvement of the new apparatus. For technical reasons temperature at the upper egg poles was in 1) somewhat higher and in 2) slightly lower than the recommended optimum of 38.5 - 39.0°C. Hatching analysis related to location of the eggs in the incubator showed in 3) the best results at the warmest spots. The normally positive heat balance of chicken embryos toward the end of incubation is seriously disturbed by the high heat conductivity of He. This was also true for chickens kept for two weeks in the same medium. Nevertheless, the tests prove that embryonal development and life of chickens is possible in an atmosphere where N<sub>2</sub> is replaced by He. There are 2 figures, 2 tables, and 7 references: 5<sup>2</sup> Soviet and 2 non-Soviet. The two references to English-language publications read as follows: D. S. Simons, E. K. Archibald, J. Aviation Med., 29, 5, 350 (1958); C. Romijn, W. Lokhorst, Poultry Sci., 35, 4, 829 (1956).

Card 2/3

Developmental potentialities of ...

S/020/62/143/002/022/022  
B144/B138

ASSOCIATION: Institut evolyutsionnoy fiziologii im. I. M. Sechenova  
Akademii nauk SSSR (Institute of Evolutionary Physiology  
imeni I. M. Sechenov); Voenno-meditsinskaya akademiya im.  
S. M. Kirova (Military Medical Academy imeni S. M. Kirov)

PRESENTED: September 5, 1961, by V. N. Chernigovskiy, Academician

SUBMITTED: April 17, 1961

Card 3/3

ROL'NIK, M.A.; RAPPOPORT, L.I.; PERETYATKEVICH, G.V.

Loudspeaker communications by power cable in stopes during cutter-  
loader operations. Ugol' 33 no.4:27-29 Ap '58. (MIRA 11:4)  
(Coal mines and mining) (Mine telecommunications)

L 05689-67 EWT(d)/FSS-2

ACC NR: AR6004343

SOURCE CODE: UR/0274/65/000/009/V003/V003

AUTHOR: Pogorel'skiy, A. Ye.; Semenenko, V. A.; Rol'nik, M. A.; Shvydchenko, B. V.

REF SOURCE: Sb. nauchn. tr. Gos. in-t po proyektir. i issled. vzryvobezopasn. elek-trooborud. Giproniselektroshakht, vyp. 2, 1964, 33-38

TITLE: Methods to insure hazardless sparking in communication equipment

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 9V24

TOPIC TAGS: spark gap, communication equipment

TRANSLATION: It is noted that the hazardless sparking of electrical circuits is de-fined by the characteristics of the transients that result from closing and breaking the circuits. To insure hazardless sparking, it is desirable that these transients be of an aperiodic nature, since in this case the maximum current and voltage do not ex-ceed certain values. For a given system capacitance, the condition for an aperiodic transient is  $R > 2\sqrt{L/C}$ , a condition which can be met by reducing inductance  $L$ . It thus follows that hazardless sparking is most efficiently attained by using communication circuits without inductive elements. In such a scheme, transistors carry out the func-tion of the subscriber's relay, the relay controlling the sending of a call. This re-lay consists of a coil and a transformer. The sidetone is achieved by means of a re-sistance bridge. The description of commutators of types RDSKh and GSKh are cited.

42  
41  
B

UDC: 621.39

Card 1/2

I. 05689-67

ACC NR: AR6004343

These were developed at the Dongiprouglemash Institute on the basis of the hazardless sparking circuits. B. B.

SUB CODE: 09/      SUBM DATE: none

*MS*  
Card 2/2

ROL'NIK, M.A.

Sparkproof mine telephone apparatus without transformers.  
Ugol' Ukr. 4 no.2:27-28 F '60. (MIRA 13:6)

1. Dongiprouglesh.  
(Mine communications)  
(Electricity in mining--Safety measures)

ROL'NIK, M.A.; RAPPOPORT, L.I.

Sparkproof amplifier for the TUD-2 centralized control apparatus.  
Ugol' 34 no.12:25-26 D '59. (MIRA 13:4)

1. Dongiproulemash.  
(Transistor amplifiers) (Mine communications)

Country : CZECHOSLOVAKIA.  
Category : Human and Animal Physiology. T  
The Physiology of Age.  
Abs. Jour. : Prof Zhur-Biol., No 23, 1978, 106086  
Author : Rolav, Misa  
Institit. : -  
Title : Studies of Changes in the Children's Cortical Processes during their School Activities.  
Orig. Pub. : Jashosl. hyg., 1977, 2, No 5, 279-282  
Abstract : In order to determine changes of cortical processes occurring in children during various lessons and under various circumstances, the author registered the reaction time of simple motions in response to previously agreed upon signals according to the method of Krestovnikov and Vasil'eva. It is recommended to use uniform signals only (light or sound signals only).

Card: 1/1

4

LIPKOVA, V.; ROLNY, D.

Spirometric examinations as a basis for evaluating the influence of physical work on the organism of boys and girls. Cesk. hyg. 8 no.4:225-231 My '63.

1. Ustav hygieny, Bratislava.  
(SPIROMETRY) (EXERTION) (SEX) (SCHOOL HEALTH)

LIPKOVA, V.; ROLNY, D.

Sanitary evaluation of some new school buildings. Cesk. hyg. 8  
no.8:454-464 S '63.

1. Ustav hygieny, Bratislava.  
(SCHOOLS) (SANITATION) (SCHOOL HEALTH)

ROLNY, D.

Relation of cerebral cortical processes in students to alternation of learning periods. Cesk. pediat. 12 no.7:634-637 5 July 57.

1. Hygienicky ustav LFUK a Oblastny ustav hygieny, Bratislava.

(LEARNING

alternation of learning periods in students, relation to cerebral cortical processes (Cz))

(CEREBRAL CORTEX, physiol.

processes, relation to alternation of learning periods in student (Cz))

BEROVIC, Radivoje, dr.; KOSTIC, Kosta, dr.; ROLOVIC, Zoran, dr.;  
MIJITINOVIC, Laposava, Mr.Ph.

Comparative studies on the bromsulphalein test and prothrombin  
complex determination in liver cirrhosis. Liječn. vjesn. 87 no.4:  
397-402 Ap '65.

1. Iz Interne klinike "B" Medicinskog fakulteta i Instituta za  
medicinska istraživanja u Beogradu.

EXCERPTA MEDICA Sec. 7 Vol. 9/12 Dec. 55

*Rokycy, D.*

2650. ROLNÝ D. Hyg. dot. Lék. Fak. SU, Bratislava. \*Skúsenosti z rekreácie oslabenej mládeže. Experiences with recreation for debilitated juveniles. BRATISLAVSKÉ LÉKARS. LISTY 1954, 34/1 (3-17) Graphs 6

In a recreation centre in the Lower Tatra (Slovakia) studies were carried out on the effects of properly adjusted recreation on the health of 134 subjects aged 7 to 15 yr. Only children and adolescents with cardiac defects, locomotor disability, disturbances of the nervous system, and similar conditions were admitted to this special camp. During a stay of 25 days, appropriate physical training and work under favourable climatic conditions led to an improvement in height, weight, vital capacity, circumference of chest, circumference of limbs, pulse and blood pressure. Based on this experience standards of physical and personal requirements, as well as a daily routine for the recreation of debilitated juveniles are given. A prolongation of the stay to 42 days is recommended.

Grushka - Jerusalem (XVII,7)

**Excerpta Medica 1/3 sec 17 Mar 55 Pub. Health, Social Medicine & etc.**

1349. ROLNY D. Hyg. Ust. L.F.S.U., Bratislava, Československo. \*Odvšivovanie mydlom DDT (predbežná zpráva). Delousing with DDT soap. Preliminary note PEDIAT. LISTY 1953, 8/3 (157-158)

Soap containing 5.7% DDT, prepared as suggested by Gladkich and others, was used with good results in groups of children severely infested by lice. After one washing no lice could be found in 98.9% of the previously 100%-lice infested children. After the 2nd washing, 7 days later, the number of negative cases rose to 99.1% and after 5 washings, all ova were apparently also destroyed.

Jírovec - Prague

**Excerpta Medica 1/4 sec 17 Apr 55 Pub. Health, Social Medicine & etc.**

1622. ROLNÝ D. Hyg. úst. Lek. Fak. SU, Bratislava. \*Skúsenosti z rekreácie os-  
labenej mládeže. Experiences with recreation for debilitated  
juveniles BRATISLAVSKÉ LÉKARS. LISTY 1954, 34/1 (3-17) Graphs 6  
In a recreation centre in the Lower Tatra (Slovakia) studies were carried out on  
the effects of properly adjusted recreation on the health of 134 subjects aged 7 to  
15 years. Only children and adolescents with cardiac defects, locomotor disabili-  
ty, disturbances of the nervous system, and similar conditions were admitted to  
this special camp. During a stay of 25 days, appropriate physical training and  
work under favourable climatic conditions led to an improvement in height, weight,  
vital capacity, circumference of chest, circumference of limbs, pulse and blood-  
pressure. Based on this experience standards of physical and personal require-  
ments, as well as a daily routine for the recreation of debilitated juveniles are  
given. A prolongation of the stay to 42 days is recommended.

Grushka - Jerusalem (XVII, 7\*)

**Excerpta Medica 1/2 sec 17 Feb 55 Pub. Health, Social Medicine & etc.**

976. ROLNÝ D. Hyg. Úst. LFSU, Bratislava. \*Odvšivovanie myco. DDT.  
Delousing by DDT soap LEK. OBZOR (Bratislava) 1953, 2/12 (760-762)

The delousing DDT soap was prepared by stirring 5 g. of commercial DDT into 5 g. of petrol, then adding this to 90 g. of liquid soap having a pH lower than 8.2. The soap was tested on 158 persons. After the first thorough soaping and washing of the hair with this soap the delousing action was 98.9%, the second washing (after a 7 days' interval) resulted in 99.1% delousing. The soap possesses a residual action and probably destroys the eggs too. Vyskočil - Brno

*ROZNY, D.*

ROZNY, D.

Organization of disinfection and disinsection in the USSR. Lek.  
obzor 3 no.11:658-665 1954.

1. Z Hygienickeho ustavu lebarskej fakulty SU v Bratislave.  
(ANTISEPSIS AND ASEPSIS  
in Russia, disinfection and disinsection organis.)

ROLSKI, S.; MAJCHERSZYK, J.; SZYMANSKA, J.; ZAKRZEWSKI, Z.

Preparation and pharmacodynamics of Veratrum album alkaloids.  
Acta Poloniae pharm. 11 no.4:229-241 1954.

1. Z Zakładu Chemii Farmaceutycznej Akademii Medycznej w Warszawie.  
Kierownik: doc. dr St. Rolski. 2. Z Zakładu Farmakologii Eksperymentalnej Akademii Medycznej w Warszawie. Kierownik: prof. dr. P. Kubikowski. 3. Z I. Kliniki Chorob Wewnętrznych Akademii Medycznej w Warszawie. Kierownik: prof. dr A. Biernacki.

(VERATRUM ALKALOIDS,  
album, prep. & pharmacol.)

THE POLISH ACADEMY OF SCIENCE

POSTĘPY W ROLNICTWIE

"Guiding principles in planning biological research of great importance to the development of economy and the national culture" p. 22 (POSTĘPY WIEDZY ROLNICZEJ, Vol. 5, no. 1, Jan/Feb 1953, Warszawa, Poland)

SO: MONTHLY list of East European Accessions, Vol. 2, #8, Library of Congress August, 1953, Uncl.

ROZNIK, V. V.

"Development of Chick Embryos and Rate of Hatching as Influenced by Changes in the Gas Composition within the Air Chamber of the Egg," Dok. AN, 52, No. 9, 1946

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

ca

Development of chick embryos and the rate of hatching as influenced by changes in the gas composition within the air chamber of the egg. V. V. Kozlov. *Compt. rend. acad. sci. U.R.S.S.* 52, 825-7 (1946) (in English). -O and art. air were insufflated into the air chambers of chicken and duck eggs on the 17-18th day of incubation, and the eggs were sealed. Insufflation of O resulted in a mean increase of 21% in the no. of eggs hatching, and in chicks which were more viable. Chicks were also more vigorous, as shown by a decrease of hatching time. Insufflation of air, and of O on the 14-15th day was less effective.

Marshall E. Deutsch

11F

COMMON LITERATURE

COMMON VARIANTS INDEX

MATERIALS INDEX

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

ALPHABETICAL INDEX

GROUPS

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

2

CZECHOSLOVAKIA

LILKOVA, V; ROLNY, P.

Institute of Hygiene (Ustav hygieny), Bratislava (for both)

Prague, Ceskoslovenska hygiena, No 4, 1963, pp 225-230

"Spirometric Examinations as a Basis for Evaluating the  
Influence of Physical Work on the Organism of Boys  
and Girls."

AGENCY

13

Pravda, GAZETA, OBYEDNA PRAVDA, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020.

20. "Contributions to the Study of the Physical Development of Children in the Primary Schools of the Republic of Poland." In: *ANNALES DE L'INSTITUT DE PEDAGOGIE ET DE PSYCHOLOGIE DE L'UNIVERSITE DE WARSAWE*, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020.
21. "An attempt at evaluating the physical-educational system of the Poles by means of Friedman's factor analysis of the results of the examination." In: *ANNALES DE L'INSTITUT DE PEDAGOGIE ET DE PSYCHOLOGIE DE L'UNIVERSITE DE WARSAWE*, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020.
22. "Hygienic problems in the organization of the Czechoslovak School System." In: *ANNALES DE L'INSTITUT DE PEDAGOGIE ET DE PSYCHOLOGIE DE L'UNIVERSITE DE WARSAWE*, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020.
23. "Physical Development of Children in the Primary Schools of Warsaw, Gdynia and Poznan." In: *ANNALES DE L'INSTITUT DE PEDAGOGIE ET DE PSYCHOLOGIE DE L'UNIVERSITE DE WARSAWE*, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020.
24. "Contributions to the Problem and Method of Research of the Pedagogical Department of the Higher Institute of Education in Poznan." In: *ANNALES DE L'INSTITUT DE PEDAGOGIE ET DE PSYCHOLOGIE DE L'UNIVERSITE DE WARSAWE*, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020.
25. "Effect of Polytechnical Instruction on the Intellectual Condition of the Children in Students of a Secondary School." In: *ANNALES DE L'INSTITUT DE PEDAGOGIE ET DE PSYCHOLOGIE DE L'UNIVERSITE DE WARSAWE*, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020.
26. "Development of the School Youth." In: *ANNALES DE L'INSTITUT DE PEDAGOGIE ET DE PSYCHOLOGIE DE L'UNIVERSITE DE WARSAWE*, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020.
27. "Evaluation of the Effect of Pedagogical Labor in the Construction Industry on the Physical Development of

ROLNY, D.

Experience gained at the recreation center for handicapped youth.  
Bratisl. lek. listy 34 no.1:3-17 Ja '54.

1. Z Hygienickeho ustavu Lekarskej fakulty SU v Bratislave, prednosta  
prof. dr. V. Mucha.

(HANDICAPPED,

\*recreation center for handicapped adolescents)

(ADOLESCENCE,

\*recreation center for handicapped adolescents)

(RECREATION,

\*center for handicapped adolescents)

ROLNY, Dusan; LIPKOVA, Valeria

Epidemiological problems associated with the work of pupils in agriculture. Cesk. hyg. 7 no.1:53-58 F '62.

J. Ustav hygieny, Bratislava.

(AGRICULTURE)

(INDUSTRIAL MEDICINE)

(ZOOZOSES)

LIPKOVA, V.; ROLNY, D.

Hygiene of children and adolescents. Cesk. hyg. 7 no.6:371-376  
Jl '62.

(CHILD WELFARE)

ZWB-E STELLE-RE-30420

ROLOFF

R3730-F87

Testing of the compressed-air pilot ejector seats in the HE 219 night fighter--  
funktionspruefung und flugerprobung der pressluft-sitzkatapultanlage der he 219---  
by rolloff bott and steinhoff rechlin e stelle aug 1944 germ unclass 15p incl photos diagra  
graphs

Detailed accounts of ground testing and some testing in flight are given. Recommendations  
are made for the detailed construction of the seat for limiting the ejection pressure to  
100 atmospheres and for limiting the acceleration of the seat to 20 g s.

SOURCE: AIR, AMC, DESK CATALOG OF GERMAN AND JAPANESE AIR-TECHNICAL DOCUMENTS,  
March 1948, P. 774, Unclassified.

ZWB-E STELLE RE-680-44A

ROLOFF

R8047-F568

Discussion held on the hydraulic system of the ME 262 jet fighter bomber---  
Hydraulikanlage ME 262---by Roloff Mirow E Stelle Rechlin Dec 1944, Germ Secr 5 P

Records on conferences principally in regard to installation of 12 and 18 liter pumps  
in the hydraulic system of the ME 262 jet fighter. The pumps are interchangeable and  
have minor differences. No definite conclusions were reached.

SO: AIR, AMC DESK CATALOG OF GERMAN AND JAPANESE AIR-TECHNICAL DOCUMENTS, March 1948,  
P. 710, Unclassified.

ROLOFS, E. A.

Normyve bazhchavye kul'tury [Vine crops for feed]. Moskva. Sel'khozgiz, 1953. 23 p.

SO: Monthly List of Russian Accessions, Vol. 6 No. 12 March 1954.

ROLOFS, R. A.

Melons

Fodder melons., Korm. baza, 3, no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, May 1952 Unclassified.

RCLOV, B. N.

Card Phys-Math Sci - (diss) "Theory of particles having spin of  $3/2$ ." Riga, 1961. 14 pp; (Academy of Sciences USSR, Physics Inst imeni P. N. Lebedev); 250 copies; price not given; bibliography at end of text (18 entries); (KL, 5-61 sup, 174)

ROSOV, B.N.

Effect of variations in composition on the broadening of ferroelectric phase transitions. Fiz. tver. tela t. 10, No. 1, 1972, p. 162.

(MIRA 17:10)

1. latviyskiy gosudarstvennyy universitet, Riga.

FRITSBERG, V. Ya., and ROLOV, B. N.

"On Some Features Determining Nature of Ferroelectric Phase Transition."

report presented at the Symposium on Ferroelectricity and Ferromagnetism,  
Leningrad, 30 May - 5 June 1963.

ACCESSION NR: AP4030637

S/0048/64/028/004/0649/0652

AUTHOR: Fritsberg, V.Ya.; Rolov, B.N.

TITLE: Some factors affecting the character of ferroelectric phase transitions  
Report, Symposium on Ferromagnetism and Ferroelectricity held in Leningrad 30 May  
to 5 June 1963/

SOURCE: AN SSSR. Izv.Ser.fiz., v.28, no.4, 1964, 649-652

TOPIC TAGS: ferroelectric solid solution , ferroelectric phase transition, diffuse  
phase transition, phase fluctuation theory, correlation energy

ABSTRACT: A simple statistical thermodynamic treatment is given of the diffuse  
phase transition in ferroelectric solid solutions of the oxygen octahedron type.  
This treatment is a generalization of an earlier discussion by one of the authors of  
lead, strontium and bismuth titanate solutions (V.Ya.Fritsberg, Izv.AN LatvSSR, No.5  
166,39,1961), and is based on the theory of phase fluctuations. It is assumed that  
the crystal can be divided into regions of volume  $v_0$ , each of which may be either  
polarized or depolarized but is never in an intermediate state. Experimental evi-  
dence for the existence of such regions is cited (W.Kanzig, Helv.phys.acta, 24, 175,

Card 1/2

ACCESSION NR: AP4030637

1951), but the magnitude of the important parameter  $v_0$  is not discussed. It is the contribution of these regions to the entropy of the crystal in a partially polarized state that results in the phase transition becoming diffuse. Following A.F. Devonshire (Advances Phys., 3, 85, 1954), it is assumed that the depolarization energy is proportional to  $T_0 P_0^2$ , where  $T_0$  is the transition (Curie) temperature and  $P_0$  is the spontaneous polarization. The width of the transition region is then found to be proportional to  $T_0/v_0 P_0^2$ . If  $T_0$  decreases less rapidly than  $P_0^2$ , the phase transition becomes more diffuse with decreasing Curie temperature, as is usually observed to be the case. The effect of a correlation energy proportional to  $(\text{grad } P)^2$  (V.L. Ginzburg, Fizika tverdogo tela, 2, 2031, 1960) is to "sharpen" the phase transition. The correlation energy is expected to be large when the ions of the two components of the solution have the same charge and nearly the same radius, and it is for just such solutions that the phase transition remains relatively sharp. Orig.art.has: 10 formulas.

ASSOCIATION: Latviyskiy gosudarstvennyy universitet (Latvian State University)

SUBMITTED: 00

DATE ACQ: 30Apr64

ENCL: 00

SUB CODE: EM

NR REF SOV: 018

OTHER: 005

Card 2/2

L 58300-65 EWT(1)/EPA(s)-2/EWT(m)/EWP(w)/EWA(d)/EEC(t)/T/EWP(t)/EWP(b)/EWA(c)  
PE-7/PI-4 IJP(c) JD/GG  
ACCESSION NR: AP5009962 UR/0371/65/000/001/008/0014

55  
44  
B

AUTHOR: Rolovs, B. (Rolov, B. N.)

TITLE: Effect of thermal fluctuations on the diffusion of ferroelectric phase transitions

SOURCE: AN LatSSR. Izvestiya. Seriya fizicheskikh i tekhnicheskikh nauk, no. 1, 1965, 8-14

TOPIC TAGS: ferroelectricity, <sup>71</sup>phase transition, secondary phase transition, thermal fluctuation, Curie region

ABSTRACT: The author attempts, on the basis of a detailed quantitative analysis of the problem, to explain the diffuseness of ferroelectric phase transitions, wherein the phase transition occurs not at a single fixed temperature (Curie point), but in some temperature region (Curie region). A ferroelectric crystal model is used, in which the crystal consists of separate Kaenzig regions, in which the thermal fluctuations give rise to spontaneous polarization and

Card 1/2

L 58300-65  
ACCESSION NR: AP5009962

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cause them to disappear. An expression is derived for the spontaneous polarization and for the dielectric constant as functions of the temperature in the case when the phase transition in each individual Kaenzig region is a second-order transition. The author thanks V. Ya. Fritsberg, Ya. Ya. Kruchan, and T. P. Riykstinya of the Latvian State University and V. N. Kashcheyev, Ye. M. Iolin, M. K. Gaylitis, R. Ya. Damburg, and E. M. Karule of the Institute of Physics of the Academy of Sciences of the Latvian SSR for a discussion of some of the problems touched upon in this paper. Original article has: 9 formulas and 3 figures

ASSOCIATION: Latviyskiy gosudarstvennyy universitet im. P. Stuchki (Latvian State University)

SUBMITTED: 04Sep64 ENCL: 00 SUB CODE: SS

NR REF SOV: 025 OTHER: 001

*JK*  
Card 2/2

L 57557-65 EWG(j)/EWT(1)/EPA(s)-2/EWT(m)/EPF(c)/EPR/EEC(t)/T/EWP(t)/EWP(b)/EWA(c)  
Pr-4/Ps-4/Pt-7 IJR(c) JD/JW/GG

ACCESSION NR: AP5016145

UR/0048/65/029/006/1019/1021

AUTHOR: Fritsberg, V.Ya.; Rolov, B.N.

TITLE: Some regularities of smeared out transition in ferroelectric solid solutions Report, 4th All-Union Conference on Ferroelectricity held in Rostov-on-the-Don 12-18 Sept 1964/

SOURCE: AN SSSR.Izvestiya, Ser.fizicheskaya,v.29,no.6,1965,1019-1021

TOPIC TAGS: ferroelectricity, dielectric constant, heat capacity, phase transition, solid solution

ABSTRACT: The authors have previously calculated the temperature dependence of the anomalous heat capacity of a ferroelectric material near the transition temperature on the basis of the theory of heterophase fluctuations (Izv.AN SSSR.Ser.fiz.28,649,1964). The calculated half-width of the heat capacity peak of BaTiO<sub>3</sub> is 0.72°K; this is in good agreement with the experimental data of J.Volger (Phillips Res. Rep.7,21,1952). Because of the paucity of thermal data on ferroelectrics this calculation is now extended to give theoretical information

Card 1/3

L 57557-65

ACCESSION NR: AP5016145

concerning the behavior of the dielectric constant near the ferroelectric transition. The calculation is limited to temperatures close to but above the transition temperature, and it is assumed that at the transition temperature half the volume of the ferroelectric material has been depolarized and the polarized material forms microscopic islands in the depolarized phase. The calculation is similar to the previous calculation of the heat capacity. A relation is derived between the heat capacity and the dielectric constant with the aid of which one can approximately calculate the temperature dependence of the heat capacity from the measured temperature dependence of the dielectric constant. It is proposed that the temperature derivative of the dielectric constant at a fixed temperature interval above the transition temperature be employed as a criterion for the degree of smearing out of the phase transitions in ferroelectric solid solutions. A formula is derived that enables one to do this in a "relative qualitative" way. Orig.art.has: 14 formulas.

Card 2/3

L 57557-65

ACCESSION NR: AP5016145

ASSOCIATION: Latviyskiy gosudarstvennyy universitet (Latvian State University)

SUBMITTED: 00

ENCL: 00

SUB CODE: SS, EM

NR REF SOV: 001

OTHER: 001

*JR*  
3/3  
Card

ACCESSION NR: AP4041719

S/0181/64/006/007/2128/2130

AUTHOR: Rolov, B. N.

TITLE: Influence of composition fluctuations on the smearing of ferroelectric phase transitions

SOURCE: Fizika tverdogo tela, v. 6, no. 7, 1964, 2128-2130

TOPIC TAGS: ferroelectricity, second order phase transition, solid solution, dielectric constant, polarization, Curie temperature

ABSTRACT: In view of the fact that the earlier attempts to explain the smearing of the phase transitions were qualitative in nature, the author solves the problem more rigorously, starting from the assumption that a definite distribution function exists for the microvolumes (Kanzig regions) with respect to the Curie temperature. It is shown mathematically that the smearing is indeed due to fluctuations in the composition of the ferroelectric solid solutions, since

Card 1/2

ACCESSION NR: AP4041719

these fluctuations cause the individual Kanzig regions to have different transition temperatures (local Curie points). The temperature dependences of the spontaneous polarization and of the dielectric constant are determined for the case of second-order phase transitions. In the case of ferroelectrics of the oxygen-octahedral type the values obtained are  $10^3$ -- $10^4$  cgs esu and  $\approx 1.5 \times 10^6$  for the polarization and dielectric constant, respectively. Orig. art. has: 2 figures and 7 formulas.

ASSOCIATION: Latviyskiy gosudarstvennyy universitet, Riga (Latvian State University)

SUBMITTED: 03Dec63

ENCL: 00

SUB CODE: 88

NR REF SOV: 009

OTHER: 001

Card 2/2

ROLOV, B. N., Cand Phys-Math Sci -- "<sup>On</sup>~~Towards~~ the theory of  
particles with a ~~mass~~ <sup>spin</sup>  $3/2$ ." Vil'nyus, 1961. (Min of Higher  
and Sec Spec Ed USSR. Vil'nyus State U V. Kapsukas) (KL,  
8-61, 228)

ROLOV, V. N.,

"Effect of Transposition of Wires in Communication Lines on Line Asymmetry Factor,  
with KOSTENKO, M. V., and MIROLYUBOV, N. N., p 620.

ROLOVA, Ye. A.

ROLOVA, Ye. A.  
"Earthquakes in Central Asia." Sub 20 Dec 50,  
Geophysics Inst, Acad Sci USSR

SO: Vechernyaya Moskva, Moscow, Jan-Dec, 1950

TASOVAC, B., prof., dr; JAKOVLJEV, D., dr; ROLOVIC, M., dr

Allergic nephritis during the course of Henoch-Schoenlein disease.  
Med. glas. 15 no.12/12a:451-456 D '61.

1. Pedijatrijska klinika Medicinskog fakulteta u Beogradu (Upravnik:  
prof. dr B. Tasovac)

(PURPURA compl) (NEPHRITIS etiol)

S

TASOVAC, Borivoje; CALIC, Nada; DUKIC, Dragica; NIKEZIC, Marija; ROLOVIC,  
Milana.

The Wissler-Fanconi syndrome. Srpski arh. celok. lek 91  
no.10:931-938 0'63.

1. Pedijatrijska klinika Medicinskog fakulteta Univerziteta  
u Beogradu. Upravnik: prof.dr. Borivoje Tasovac.

S

STEFANOVIC, S.; MILOSAVLJEVIC, A.; STEFANOVIC, R.; VUKOTIC, D.; PASTRAKULJIC,  
N.; PERISIC, V.; GUZINA, D.; ROLOVIC, Z.

Clinical significance of the determination of coagulation  
factors. Acta med. iugosl. 13 no.2:164-196 '60.

1. Clinique Medicale A de la Faculte de Medecine de Belgrade  
et Centre de la transfusion sanguine de Belgrade.  
(BLOOD COAGULATION)

BEROVIC, Radivoje; prof. dr.; RUVIDIC, Rajko; ROLOVIC, Zoran; PENDIC, Smilja; BROZOVIC, Milica.

Hemolytic anemia. Clinical and hematological considerations.  
Srpski arh. celok. lek. 92 no.11:1049-1062 N'64.

1. Interna klinika B Medicinskog fakulteta Univerziteta u Beogradu (Upravnik: prof. dr. Radivoje Berovic); Centralna laboratorija za primenu radioaktivnih izotopa Radioloskog instituta Medicinskog fakulteta Univerziteta u Beogradu (Upravnik: prof. dr. Bogoljub Bosnjakovic).

BEROVIC, R.; ROLOVIC, Z.; LALIC, M.

Examination of coagulability and coagulation factors in patients  
with ischaemic heart disease. Acta med. iugosl. 15 no.2:195-207  
'61.

(MYOCARDIAL INFARCT blood)  
(BLOOD COAGULATION physiol.)

BOZINOVIC, Lj., dr.; ROLOVIC, Z., dr.; RUVIDIC, R., dr.; DORDEVIC, B. S.,  
dr., prof.

Polycythemia vera with myocardial infarct. Med. glasn. 15 no.9/10:  
397-400 0 '61.

1. Interna klinika B Medicinskog fakulteta Univerziteta u Beogradu  
(Upravnik: prof. dr R. Berovic). 2. Clan Uredivackog odbora, "Medi-  
cinski glasnik" (for Dordevic).

(POLYCYTHEMIA VERA compl) (MYOCARDIAL INFARCT compl)

SFUZIC, I., dr., asistent; ROLOVIC, Z., dr.

Antigenic properties of human plasma. Glas SANU 12  
no.2:225 '60 [publ.'62].

\*

ROLOVIC, Zoran, dr.

Research on the mechanism and principles of the activity of anticoagulants. Med. glasnik 18 no.8:209-213 Ag '64

I. Interna klinika B Medicinskog fakulteta u Beogradu (Upravnik: prof. dr. Berovic).

RUDVIDIC, Rajko, dr.; ROLOVIC, Zoran, dr.; PENDIC, Smilja, dr.; KOSTIC, Kosta, dr.

A case of thalassemia minor. Lijecn. vjesn. 84 no.7:673-678 '62.

1. Interna klinik "B" Medicinskog fakulteta i Centralna laboratorija za primenu radioaktivnih izotopa u Beogradu.  
(ANEMIA ERYTHROBLASTIC)

RUVIDIC, R.; ROLOVIC, Z.; PENDIC, S.; KANJUH, V.

A contribution to the study of the erythropoietic insufficiency and bone marrow aplasia during malignant neoplasms; on a case of generalized cancer of the breast with haemolytic anaemia and bone marrow aplasia. Acta med. iugosl. 15 no.3:241-250 '61.

1. Medical Clinic "B" Medical Faculty, University of Belgrade, Central Laboratory for Radioactive Isotopes Application, Serbian Academy of Sciences, Belgrade and Institute of Pathology, Medical Faculty, University of Belgrade.

(BREAST NEOPLASMS compl) (ANEMIA HEMOLYTIC etiol)  
(ANEMIA APLASTIC etiol)

ROLOVIC, Zoran, dr.; BAKLAJA, Radmila, dr.; PAPO, Asja

Hemostatic agents in preserved blood. (Its changes during the course of preservation and its inhibition). Med. glas. 15 no.6:230-234 Je '61.

1. Zavod za transfuziju krvi NR Srbije (Direktor: Dr. P. Lah)

(BLOOD PRESERVATION) (HEMOSTATICS)

5

ROLOVIC, Zoran; MOJOVIC, Mihajlo

Conjunctival and cutaneous allergic manifestations caused by local sulfacetamide. Srpski arh. celok. lek. 89 no.3:375-377 Mr '61.

1. Zavod za transfuziju krvi u Beogradu. Upravnik: dr Paula Lah.  
Fizioloski institut Medicinskog fakulteta Univerziteta u Beogradu.  
Upravnik: prof. dr Milutin Neskovic.

(SULFONAMIDES toxicol) (DERMATITIS MEDICAMENTOSA)  
(CONJUNCTIVITIS etiol)

ROLOVIC, Zoran

Fibrinolysis in the organism. Its mechanism and significance.  
Srpski arh. celok. lek. 88 no.7/8:777-790 J1-Ag '60.

1. Interna klinika B Medicinskog fakulteta Univerziteta u Beogradu.  
Upravnik: prof. dr Radivoje Beric.

(FIBRINOLYSIS)

RUVIC, Rajko; MICIC, Jovan; STEVANOVIC, Miliwoje; ROLOVIC, Zorani  
JANCIC, Marija

Acute thrombocytopenic purpura in a patient with chronic disseminated  
lupus erythematosus. Srpski arh. celok. lek. 89 no.1:93-98 Ja '61.

1. Interna klinika B. Medicinskog fakulteta Univerziteta u Beogradu.  
Upravnik: prof. dr Radiwoje Berovic. Interna klinika A Medicinskog  
fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Branislav  
Stanojevic.

(PURPURA THROMBOPENIC compl)  
(LUPUS ERYTHEMATOSUS compl)

ROLOVS, B., dots.; ANTONS, Z., red.

[Nuclear physics] Kodolfizika. Riga, Latvijas Valsts izd-  
ba, 1964. 389 p. [In Latvian] (MIRA 18:7)

ROL'SHCHIKOV, N.M., преподаvatel'

Visual study of devices. Avtom., telem. i sviaz' 5 no.10:45  
O '61. (MIRA 14:9)

1. Yasinovatskiy industrial'nyy tekhnikum.  
(Railroads--Signaling) (Railroads--Communication systems)

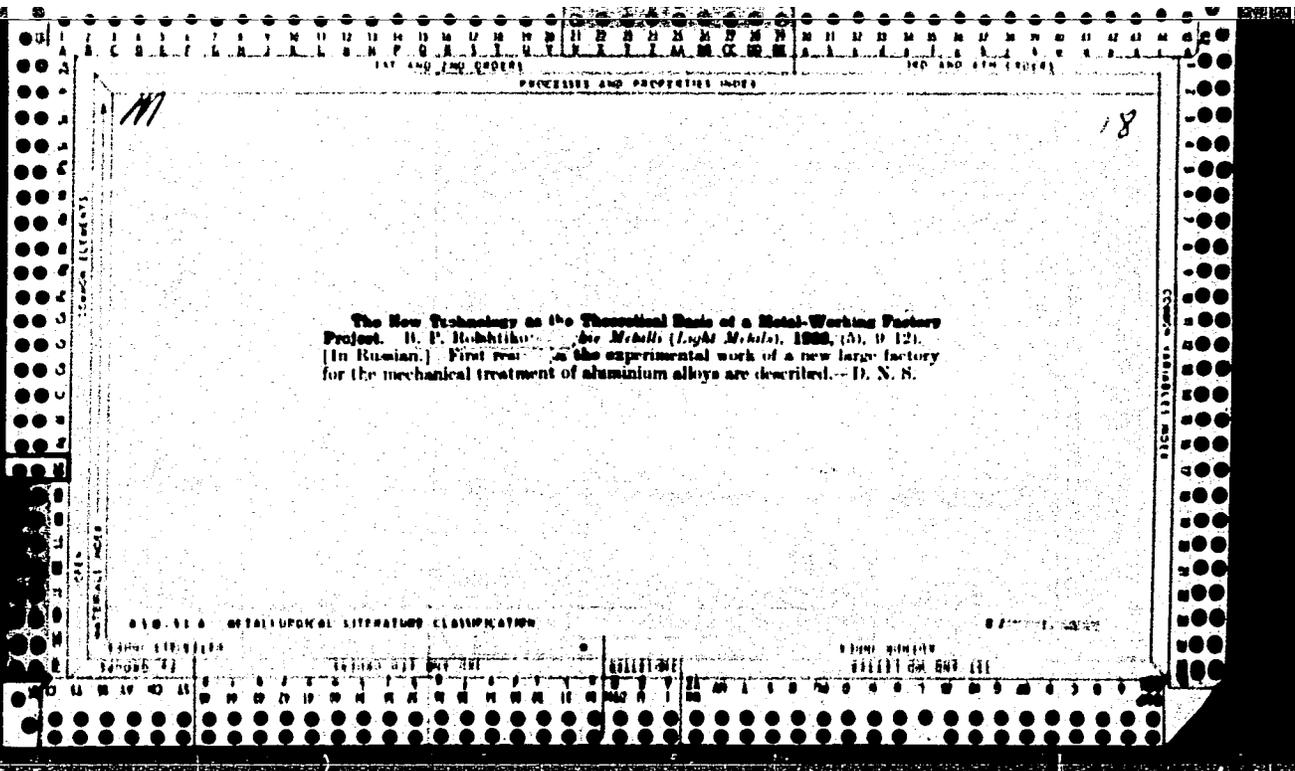
PROCESSES AND PROPERTIES INDEX

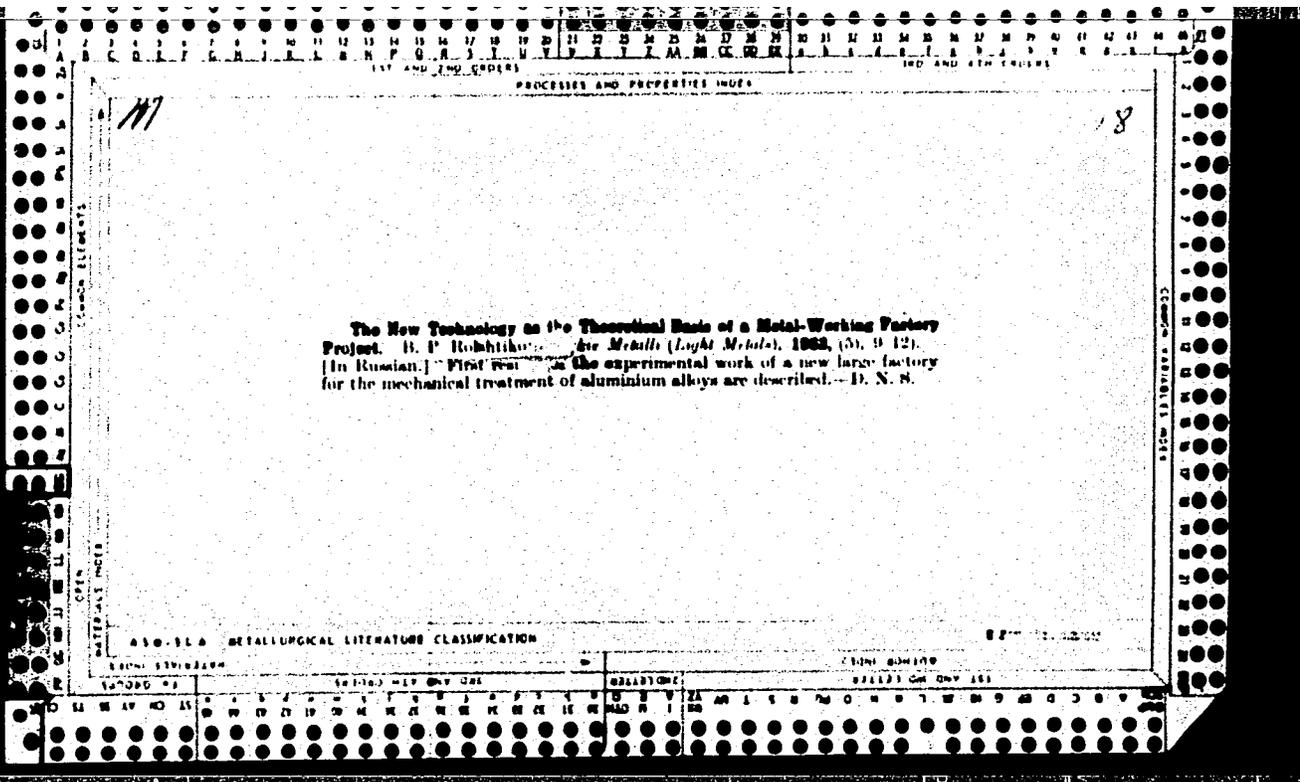
27

**†General Considerations of the Requirements and Possible Production of Aluminum and Magnesium under the [Russian] Second Five-Year Plan. B. P. Rolshtahikov (*Legkie Metalli (Light Metals)*, 1933, (9), 5-11).—[In Russian.]**  
 With the energy resources available under the second five-year plan, it is concluded that 200,000 tons of aluminum and magnesium can be produced in 1937; the problem of providing sufficient plant and apparatus for dealing with this amount is examined. New applications of light alloys, which must be developed under the second five-year plan, are mentioned.—D. N. S.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

GROUPS	SIGNED MAP ONE ONE	LETTERS	SIGNED ONE ONE ONE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	0 1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100





ACC NR: AP6022512

SOURCE CODE: UR/0133/66/000/004/0379/0383

AUTHOR: Sokolov, N. V. (Candidate of technical sciences); Bobyleva, S. F. (Engineer);  
Rol'shchikov, L. D. (Engineer); Andrianova, A. L. (Technician)

ORG: None

TITLE: Spring wire from stainless steel

SOURCE: Stal', no. 4, 1966, 379-383

TOPIC TAGS: stainless steel, spring, mechanical property, wire product, magnetic property

ABSTRACT: The authors study the effect of the chemical composition and specific production factors of various varieties of stainless steel on mechanical and magnetic properties of wire during drawing. The results of the study show that it is necessary to suppress the  $\gamma \rightarrow \alpha$  transformation in order to produce spring wire from stainless steel which has a minimum  $\alpha$ -phase content and high ductility. This suppression can be accomplished by increasing nickel content from 10.5 to 11.0%, maintaining minimum titanium content of not more than 5 (C-0.02)%, maintaining austenization temperatures (1050-1100°C) and multiple-pass drawing at speeds not exceeding 150-200 m/min. Nevertheless, the production of wire from Kh18N10T steel which contains nickel at the upper limit given by GOST 5632-61 does not guarantee attainment of the strength requirements. This

Card 1/2

UDC: 621.771.42

ACC NR: AP6022512

makes it necessary to select a metal with an average nickel content of 9.6-10.0%. The result of this is that the  $\alpha$ -phase content is increased in the wire. Good results can be expected from steel with a nonstandard titanium content up to 0.3%. In this case, the selection of a metal at the upper limit with respect to carbon content (0.10-0.12%) would improve strength and lower the quantity of the  $\alpha$ -phase along with alloying austenite with a certain amount of uncombined carbon. Wire produced in this manner should be sufficiently stable with respect to intercrystalline corrosion. Greater strength and higher ductility with low  $\alpha$ -phase content can be obtained by making wire from steel not alloyed with titanium. At the same time, carbon content does not have to exceed 0.05-0.8% to prevent intercrystalline corrosion. While the limitations with respect to  $\alpha$ -phase concentration do not conform to a given set of rules, still the strongest wire can be produced by work hardening alloyed austenite and by the  $\gamma \rightarrow \alpha$  transformation during drawing. In doing this, steel must be used which is not alloyed with titanium and has a minimum amount of nickel (8.0-8.5%) and (17-18%) chromium. It must also contain a relatively small amount of carbon (0.06-0.10%). Drawing must be carried out with relatively small reductions at low drawing rates and with adequate cooling before proceeding with the next stage of deformation. Orig. art. has: 6 figures, 1 table.

SUB CODE: 11, 13/ SUBM DATE: None/ ORIG REF: 005

Card 2/2

FEDENEV, G.S., kand.tekhn.nauk; ROL'SHCHIKOV, Ye.P., inzh.; MITYUSHEV, S.I., dotsent; OL'KHOVOY, A.I., inzh.; TITOVA, LA., inzh.; KUTYYEV, G.M., inzh.; TREGUBOV, G.G., inzh.; ASHUKIN, D.D., kand.tekhn.nauk, retsenzent; MAKSIMOVICH, B.M., kand.tekhn.nauk, retsenzent; PETROVA, V.L., inzh., red.; VASIL'YEVA, N.N., tekhn.red.

[Mechanization and automation of information and accounting work in railroad sections] Mekhanizatsiia i avtomatizatsiia informatsionno-uchetnoi raboty na otdeleniakh zheleznykh dorog. Moskva, Vses.izdatel'sko-poligr. ob'edinenie M-va soobshcheniia, 1962. 159 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.240). (MIRA 16:2)

(Railroads--Management)  
(Electronic computers)

ROLSKI, J.

MILITARY & NAVAL SCIENCES

Periodicals: ROZKOWY PRZEGLAD LONICZY Vol. 11, no. 12, Dec. 1958

ROLSKI, J. Sweden's Air Force. p. 52.

Monthly List of East European Accessions (4 MI) IC. Vol. 8, No. 3

1959, Unclass.

March

1981, 9.

Symposium on tranquilizers. *Annals of the New York Academy of Sciences*, 1981, 379, 1-10.

ROLSKI, Stanislaw; ZDUNSKA, Alina; SOKOLOWSKA, Maria

New method of isolation of L-leucine and L-arginine from keratin hydrolyzates. Acta Pol. pharm. 22 no.2:123-127 '65.

1. Z Zakladu Chemii Farmaceutycznej Akademii Medycznej w Warszawie (Kierownik: prof. dr. S. Rolski).

ROLSKI, Stanislaw; NAKIELSKA, Lucyna; ROSZKOWSKA, Zdzislawa

Isolation of L-cystine as dihydrochloride from human hair hydrolozates. Acta Pol. pharm. 22 no.2:129-131 ' 65.

1. Z Katedry Chemii Farmaceutycznej Akademii Medycznej w Warszawie (Kierownik: prof. dr. S. Rolski).

ROLSKI, Stanislaw; ZDUNSKA, Alina; POPKO, Alina

Studies on L-leucine hydrochloride compounds. Acta pol. pharm.  
20 no.2:141-145 '63.

1. Z Katedry Chemii Farmaceutycznej Akademii Medycznej w  
Warszawie Kierownik: prof. dr St. Rolski.  
(LEUCINE) (CHEMISTRY, PHARMACEUTICAL)

POLAND

ROLSKI, S. and DOBRZANSKI, R., of the Pharmaceutical Chemistry Department,  
School of Medicine (Zaklad Chemii Farmaceutycznej Akademii Medycznej),  
Warsaw. Prof. Dr. St. Rolski, Head.

"Separation of L-Leucine from Protein Hydrolyzates Using Some m- and  
p-Xylenesulfonic Acids"

Warsaw, Farmacja Polska, Vol 23, No 2, February 67, pp 95-100

Abstract: Four new methods of L-leucine separation from protein hydroly-  
zates are described. These are based on the use of 6-chloro-m-xylene-4-sulfonic  
6-bromo-m-xylene-4-sulfonic, 2-chloro-xylene-5-sulfonic and 2-bromo-p-xylene-  
-5-sulfonic acids. The reaction conditions and physical constants are given  
for 12 products. The purity of the resultant L-leucine was determined.  
Contains 1 Table and 14 references (4 Polish, 7 Western and 3 German-  
language)

1/1

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New method for the isolation of arginine from protein hydro-  
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Warszawie (kierownik: prof. dr. S. Rolski).

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Preparation of protein hydrolysates for parenteral administration by means of acid hydrolysis. Acta pol. pharm. 19 no.5:421-425 '62.

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Kierownik: prof. dr S. Rolski.

(PROTEIN HYDROLYSATES)

(CHEMISTRY, PHARMACEUTICAL)

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Separation of L-histidine from hydrolysates of dehydrated bovine blood  
by means of 3,4-dichlorobenzenesulfonic acid. Acta pol. pharm. 19  
no.5:427-430 '62.

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Kierownik: prof. dr S. Rolski.

(PROTEIN HYDROLYSATES)

(HISTIDINE)

(SULFONIC ACIDS)

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Preparation of L-cysteine by reduction of L-cystine. Acta pol. pharm.  
19 no.6:523-526 '62.

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Kierownik: prof. dr St. Rolski.  
(CYSTEINE) (CYSTINE) (OXIDATION-REDUCTION)

Country : Poland H-17  
Category :  
Abs. Jour. : 46837  
Author : Rolski, S.; Kwapiszewski, W.  
Institut. :  
Title : Preparation of Glutamic Acid by Hydrolysis of  
Keratin-Containing Animal Raw Materials  
Orig. Pub. : Farmac. polska, 1957, 13, No 12, 311-314

Abstract : A method has been developed for preparation of glutamic acid (I). 3 kg of clean and dry horns and hoofs are heated 2-3 hours with 1500 ml concentrated HCl (acid) at 40-50°, then for 3 additional hours at 100-110°, and held at this temperature for 18 hours. After 15 hours added 500 ml concentrated HCl (acid), solution filtered and allowed to stand for 5-6 days, to effect crystallization. Hydrochloride of I, that separates, is filtered, washed with concentrated HCl (acid), dissolved in 800 ml water, heated to 80-90°, decolorized with charcoal and filtered. I is precipitated from solution by adjusting pH to 3.2-3.3. Purification is repeated, precipitate washed, dried at a temperature up to 30°C. 1/2

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(ANEMIA, PERNICIOUS, therapy,  
placental tissue ther. (Pol))

(TISSUE THERAPY, in various diseases,  
anemia, pernicious, placental extract (Pol))

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Attempted verification of a factor regulating thrombocytopoiesis in bone marrow. Pol. arch. med. wewn. 32 no.11:1353-1360 '62.

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(BONE MARROW)

(BLOOD PLATELETS)

(HEMATOPOIESIS)

(DIETHYLSTILBESTROL)

(PURPURA)